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SEQUENCE LISTING

<110> DANA-FARBER CANCER INSTITUTE, INC.
KOLODNER, Richard
WINAND, Nena

<120> A METHOD OF DETECTION OF ALTERATIONS IN MSH5

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<141> 1999-12-22

<150> 60/051,686

<151> 1997-07-03

<150> PCT/US98/13850

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Leu	Gly	Lys	Leu	Ala	Ser	Glu	Glu	His	Arg	Glu	Pro	Lys	Gly	Pro	Glu	115	120	125
Ile	Ile	Leu	Leu	Pro	Ser	Val	Asp	Phe	Gly	Pro	Glu	Ile	Ser	Lys	Gln	130	135	140
Arg	Leu	Leu	Ser	Gly	Asn	Tyr	Ser	Phe	Ile	Ser	Asp	Ser	Met	Thr	Ala	145	150	155
Thr	Glu	Lys	Ile	Leu	Phe	Leu	Ser	Ser	Ile	Ile	Pro	Phe	Asp	Cys	Val	165	170	175
Leu	Thr	Val	Arg	Ala	Leu	Gly	Gly	Leu	Leu	Lys	Phe	Leu	Ser	Arg	Arg	180	185	190
Arg	Ile	Gly	Val	Glu	Leu	Glu	Asp	Tyr	Asp	Val	Gly	Val	Pro	Ile	Leu	195	200	205
Gly	Phe	Lys	Lys	Phe	Val	Leu	Thr	His	Leu	Val	Ser	Ile	Asp	Gln	Asp	210	215	220
Thr	Tyr	Ser	Val	Leu	Gln	Ile	Phe	Lys	Ser	Glu	Ser	His	Pro	Ser	Val	225	230	235
Tyr	Lys	Val	Ala	Ser	Gly	Leu	Lys	Glu	Gly	Leu	Ser	Leu	Phe	Gly	Ile	245	250	255
Leu	Asn	Arg	Cys	Arg	Cys	Lys	Trp	Gly	Gln	Lys	Leu	Leu	Arg	Leu	Trp	260	265	270
Phe	Thr	Arg	Pro	Thr	Arg	Glu	Leu	Arg	Glu	Leu	Asn	Ser	Arg	Leu	Asp	275	280	285
Val	Ile	Gln	Phe	Phe	Leu	Met	Pro	Gln	Asn	Leu	Asp	Met	Ala	Gln	Met	290	295	300
Leu	His	Arg	Leu	Leu	Ser	His	Ile	Lys	Asn	Val	Pro	Leu	Ile	Leu	Lys	305	310	315
Arg	Met	Lys	Leu	Ser	His	Thr	Lys	Val	Ser	Asp	Trp	Gln	Val	Leu	Tyr	325	330	335

Lys Thr Val Tyr Ser Ala Leu Gly Leu Arg Asp Ala Cys Arg Ser Leu
 340 345 350
 Pro Gln Ser Ile Gln Leu Phe Gln Asp Ile Ala Gln Glu Phe Ser Asp
 355 360 365
 Asp Leu His His Ile Ala Ser Leu Ile Gly Lys Val Val Asp Phe Glu
 370 375 380
 Glu Ser Leu Ala Glu Asn Arg Phe Thr Val Leu Pro Asn Ile Asp Pro
 385 390 395 400
 Asp Ile Asp Ala Lys Lys Arg Arg Leu Ile Gly Leu Pro Ser Phe Leu
 405 410 415
 Thr Glu Val Ala Gln Lys Glu Leu Glu Asn Leu Asp Ser Arg Ile Pro
 420 425 430
 Ser Cys Ser Val Ile Tyr Ile Pro Leu Ile Gly Phe Leu Leu Ser Ile
 435 440 445
 Pro Arg Leu Pro Phe Met Val Glu Ala Ser Asp Phe Glu Ile Glu Gly
 450 455 460
 Leu Asp Phe Met Phe Leu Ser Glu Asp Lys Leu His Tyr Arg Ser Ala
 465 470 475 480
 Arg Thr Lys Glu Leu Asp Thr Leu Leu Gly Asp Leu His Cys Glu Ile
 485 490 495
 Arg Asp Gln Glu Thr Leu Leu Met Tyr Gln Leu Gln Cys Gln Val Leu
 500 505 510
 Ala Arg Ala Ser Val Leu Thr Arg Val Leu Asp Leu Ala Ser Arg Leu
 515 520 525
 Asp Val Leu Leu Ala Leu Ala Ser Ala Ala Arg Asp Tyr Gly Tyr Ser
 530 535 540
 Arg Pro His Tyr Ser Pro Cys Ile His Gly Val Arg Ile Arg Asn Gly
 545 550 555 560
 Arg His Pro Leu Met Glu Leu Cys Ala Arg Thr Phe Val Pro Asn Ser
 565 570 575
 Thr Asp Cys Gly Gly Asp Gln Gly Arg Val Lys Val Ile Thr Gly Pro
 580 585 590

Asn Ser Ser Gly Lys Ser Ile Tyr Leu Lys Gln Val Gly Leu Ile Thr
 595 600 605
 Phe Met Ala Leu Val Gly Ser Phe Val Pro Ala Glu Glu Ala Glu Ile
 610 615 620
 Gly Val Ile Asp Ala Ile Phe Thr Arg Ile His Ser Cys Glu Ser Ile
 625 630 635 640
 Ser Leu Gly Leu Ser Thr Phe Met Ile Asp Leu Asn Gln Val Ala Lys
 645 650 655
 Ala Val Asn Asn Ala Thr Glu His Ser Leu Val Leu Ile Asp Glu Phe
 660 665 670
 Gly Lys Gly Thr Asn Ser Val Asp Gly Leu Ala Leu Leu Ala Ala Val
 675 680 685
 Leu Arg His Trp Leu Ala Leu Gly Pro Ser Cys Pro His Val Phe Val
 690 695 700
 Ala Thr Asn Phe Leu Ser Leu Val Gln Leu Gln Leu Leu Pro Gln Gly
 705 710 715 720
 Pro Leu Val Gln Tyr Leu Thr Met Glu Thr Cys Glu Asp Gly Glu Asp
 725 730 735
 Leu Val Phe Phe Tyr Gln Leu Cys Gln Gly Val Ala Ser Ala Ser His
 740 745 750
 Ala Ser His Thr Ala Ala Gln Ala Gly Leu Pro Asp Pro Leu Ile Ala
 755 760 765
 Arg Gly Lys Glu Val Ser Asp Leu Ile Arg Ser Gly Lys Pro Ile Lys
 770 775 780
 Ala Thr Asn Glu Leu Leu Arg Arg Asn Gln Met Glu Asn Cys Gln Ala
 785 790 795 800
 Leu Val Asp Lys Phe Leu Lys Leu Asp Leu Glu Asp Pro Thr Leu Asp
 805 810 815
 Leu Asp Ile Phe Ile Ser Gln Glu Val Leu Pro Ala Ala Pro Thr Ile
 820 825 830
 Leu

<210> 55
<211> 232
<212> DNA
<213> Human

<400> 55
gtaacctccg cgtgacagaa tgaggggtggg gcgcgtggag tttcccacaa tctgtacttt 60
agttaaatac ccgagaattc acctcctgtg tccacagctc tccacgcccc tcagccctgc 120
cccgcagccc tgtatcagaa gtacttagcg ctttgcattc tgcgcgccac cctaccccgg 180
cctcctctgt gaatcgttgc ttccgaaccg ccctcacttt ttgcatccgc ag 232

<210> 56
<211> 74
<212> DNA
<213> Human

<220>
<221> intron
<222> (73)..(74)
<223> N = A or T or G or C

<400> 56
gtctctgagg ggagtagaaa cttgaatgga gaggttgatgg gaatttaaaa taaaagaggg 60
ttgggagccg ggnn 74

<210> 57
<211> 189
<212> DNA
<213> Human

<400> 57
aaaaaaaaac aggggttgga agagctgggc aagtctctta cctcctgagt ggctgtttca 60
cattcactaa atgggggtga tgatgcctat ctcagagatt tgagaaaatg attaaattat 120
ataagacatg gtaaacccta cacttatgag tgattctaata agtgatttcc tttcttcctt 180
gctggacag 189

<210> 58
<211> 450
<212> DNA
<213> Human

<220>
<221> intron
<222> (449)..(450)

<223> N = A or T or G or C

<400> 58

```
gtgggggatgg aaccatgaat tcctctgctc tctgggattg cagatgtgtt acacacacac 60
acacacacac acacacacac acacacatat ttttttttcc tagacagagt cttgctctgt 120
taccagaggt caagtgcagt ggcgcaatct tggctcactg cagcctccac ctctggggtt 180
caagcaattc tcctgactca acctcccgag tagctgggac tacaggcgtg tgccaccaca 240
cccagctagt tttttgtgtg tgttttttagc acagacgggtg tttcaccatg ttggccaggg 300
tgggtctcaa ctctgacct tgtgatccgc ccaccttggc ctctaaagt gctgggacta 360
cagggtgtgag tcaccacgcc cagccatgtt ttacttacat taactcacct cactgtctag 420
catattttgt gttgctgtaa ggaaatacnn                                     450
```

<210> 59

<211> 323

<212> DNA

<213> Human

<400> 59

```
ggcgacaaat atatatgacg tatttacaat gtttcagggtg cttcagattc agccctgggc 60
aatcagtc tgtctgttct ccaggggttt acagcctagt gacaacatcc agaacatccc 120
acttccctct caccatccca ccactcttaa ctacttttct aaatctcaac ttctacctgt 180
gttcccactg tgcagagcac tcctactcc tagggaggaa atgtttttga gaaggagagg 240
ggtaggaaga ggagggtat gggttttctc ttagtcaaag acaaagatcc ttttaactcat 300
ttgatctctg ttctccttcc aag                                     323
```

<210> 60

<211> 150

<212> DNA

<213> Human

<400> 60

```
gtaaggactt ggtaaaggat agagggaaaa tggggaagga ctaatatatg gaatattcca 60
gggggctaga attgggtgag agggagtgtc agacagaggt agaaggactg agatgtaaag 120
aatgatagcc ttttctttcc tccccacag                                     150
```

<210> 61

<211> 733

<212> DNA

<213> Human

<400> 61

```
gtatctcctt ctttttgctt tgcctaactc cctgttccgg tgtcccatte tttcccccaa 60
ctctaccttc atcatcacag atctccctc tgccttatgt catcctaaac ctttgtgtct 120
ctcatgccct atgacctgtc cccccaagat ctctcctgct ccctaccctt taataatctg 180
cagcttattg ggaagcctct gcttaagtca tgtctaggga tgagggcctc cctgaggag 240
```

```

tggtgacact ttttggacag ggttttattg ttggaattct ccccatthaag ttaaagcctt 300
ttatcaccaa accaaaaggc actgcctcag tgacccttat tatgatccat aaggcacttc 360
tataactttc ctaggtttac aataagaaca ggagtgtact atcctaatta gatattaagg 420
cattagtgtt actagtttcta ttaataccat tattttgacc aaaatcctca attccagaca 480
gatgtctact ttcttcagcc atttatcttt ctgaggctgt gctttcagac aagtatcttt 540
atattatatg tagaataaaa agagaattag actaagagtc tgaaaatttg gttcttgctc 600
tagctttcca ttaactgcct gtgtgagctt gggcaagtca aataatctct cttgcttcta 660
ttgtctcatt cttaaaatgg ggtgaaaaaa ttgagctaca agaccgttcc ctttgcttgc 720
ctccctcaaa tag 733

```

```

<210> 62
<211> 164
<212> DNA
<213> Human

```

```

<400> 62
gtgagattgg tcctggggga taagggtggt gaggcggcac aagtgttagg gctgaattct 60
gggaggtact ggctagccc tggaataatag taactttccc tgggtgtctg cagccccag 120
gagatttaag atttaccgag attccactgc tgatccccctc ccag 164

```

```

<210> 63
<211> 246
<212> DNA
<213> Human

```

```

<400> 63
gtaggtgatt caccccaacc ccaaccaaag taatgtggga ttgggaggcc tgaaaagtaa 60
agtgggggtg ggggtgtgat gtggtgtga cccagtgggt caagggtctt aggcacccg 120
ggagaatcta agggctaatt agactttggg aagaagactg ggacaatatt cagagagggg 180
gacaaaggaa gtggagttgt ggaacgaact cagactgctt cctgcttttt tgttttctgt 240
cctcag 246

```

```

<210> 64
<211> 413
<212> DNA
<213> Human

```

```

<220>
<221> intron
<222> (412)..(413)
<223> N = A or T or G or C

```

```

<400> 64
gtaaagaggt ggaggcatgc tgctgtctct ggggaggag aaggattaag tttaatgccc 60
caataatcct aatgaggctc tagtttccct aatcctgggg ctattaagat ctctctcctt 120

```

gaaggaaagg gaaggggggt tttagaggaa agagaggaag aaaagcataa agataactagc 180
 tttcttttct ataggagaa actgaggcaa agaaaagtaa gggacaaacc ttacatcaag 240
 atatgatctc ggctgggccc ggtggctcat gcctgtaatc cccgcgcttt gggaggccaa 300
 ggcgggtgga tcgcctgagg tcaggagttt gagacctgac caatatggta aaaccccgtc 360
 tctactaaaa atataaaaat tagctgggtg tgttgtgcgc ctgtaatccc ann 413

<210> 65
 <211> 136
 <212> DNA
 <213> Human

<400> 65
 ttttttttta aaaaaaaaaa aaaaaagacg tgatctcagg aggatatecc ctgtcccat 60
 tccatttatc agtcctcaat tcttattccc ctcaaaagtc caagttaccc caaactcctc 120
 catttctcct cgacag 136

<210> 66
 <211> 356
 <212> DNA
 <213> Human

<220>
 <221> intron
 <222> (355)..(356)
 <223> N = A or T or G or C

<400> 66
 gtaggtgtgc cccatccctc atctcacgta caaagaccta ccagaaaagc aattggctcc 60
 aaagatgtgt ccagccctcc ctcccccatt cactcccatt gtcagatato tctttcatgc 120
 caatccaaat ttcttaccta tttgtacccc ccgccccca agcttgagca tcttcccata 180
 ctttgtggct gtacagtgtg ttgcatatca gccattactt taccaattct gtgttccttc 240
 cctgggtttg tatgaatgtt tctactagtt gggtagctgt tagggacttt gggagacctt 300
 gtgtatagag aagagttttg taactgcata actgcctatt tgatttgtat agagnn 356

<210> 67
 <211> 426
 <212> DNA
 <213> Human

<400> 67
 ccaggagtag agggagagac agaaacagcc aacaatggcc cagaaaatgg atgatatatt 60
 agataaggga agaaatgagt taccagattg gggagagatg gtttggatgt caaagcaggt 120
 gatcggtgac gtcagcgtcc gaggaagac ggctgccacc ggcggggcca gttgaggga 180
 ctaggtagtt aagtgttgtc gggctaaaag tccttagagt gtccatccct ccccatctc 240
 catgtgcggt aatcccagct catttagggg ccaggcacca actttggttg cctttgtgcc 300

ctcccaggcc agcttccctca acaaccagca cctctgactg gatgcctcag gttagacaca 360
 taaacacatt ccattgcctt gtccgtgcct tgtaacaagt tcactccctg ccttatccct 420
 cacaag 426

<210> 68
 <211> 360
 <212> DNA
 <213> Human

<220>
 <221> intron
 <222> (359)..(360)
 <223> N = A or T or G or C

<400> 68
 gtgagtgggt cccacacata ctacacacta atgcatgaat tccatatgca cactacatac 60
 taagcctact aatggcagta tacagattct cacatacacc accccacctg gtagtagtaa 120
 agcaactgcc ctttactgag cactggctaa ctgcatttca tccttataac agctttgtgt 180
 agtagctgat atgcatctca tttttgtgtg tcagcgcagg tacacatata cattgatgat 240
 acacagactt gcacacatac agcagcagga aaaaacacaa aatgtaaggc cgggcacagt 300
 ggctcacacc tggtatcagc actttggggg gccaacgctg ggtgaccttc catctttggn 360

<210> 69
 <211> 447
 <212> DNA
 <213> Human

<400> 69
 cacaggaaga atatgaaaag atgaatgtct gttgctgtta cccagagaca ctttcacagc 60
 taaaaagaca tacaaactca tactgactca ccgtctctta ctcagcctca gtagtgactg 120
 cagtgttggc acacaaatac ctcaacacac tgctctcctt ctaaaatatt gacaagctcc 180
 gttacttata tacatggaat gacacacggc cttatccgtt gaaactgtga tatgtagaca 240
 caattatgct cacatctagc aattttcagt agatacatgt aaacacacct gaatgggtag 300
 gacactgcac ttgccactac attcccatag cacatcgtgg atacatattg ccacaatccc 360
 cagggactgc aagcacactt tttggcaaac tgagatcaag atgatagatg taactttag 420
 tccccccacc caaacctca cttccag 447

<210> 70
 <211> 127
 <212> DNA
 <213> Human

<400> 70
 gtgagcccag ggtggagggc agggaggtgg ggaaggaggt tgagggctga tactgggcag 60
 tgggcttctt gaggggcatt agagtgaggg aagagaaaac agcggctgta accttgtctg 120

actgtag

127

<210> 71

<211> 30

<212> DNA

<213> Human

<220>

<221> intron

<222> (29)..(30)

<223> N = A or T or G or C

<400> 71

gtaaggcctt ccttcttgaa tcccaaaann

30

<210> 72

<211> 222

<212> DNA

<213> Human

<400> 72

tacaggcatg agccactgtg cctggccagg accatatctt aattgtcttt gtagtttcag 60
tgtttggtac agtgccctctc actgtttctt tttgcctttg agatcttccc tctttgttac 120
tgtgatcttc cctaactggtc tttgttcttc tgagtctgtc cctatcacca cctcaaccgc 180
agctggatgt ggcctgtcct cctttttgtg tttctctcac ag 222

<210> 73

<211> 254

<212> DNA

<213> Human

<400> 73

gtgagtagaa ggaaaaaggg agtgcaccca gggagggtcag ggagagagaa tgcagtgtgc 60
aagatgggga aacatggaag atattgaggt caattggata aagaatggga tgggtgggagg 120
aggcagcaga acttcagggg agtatctgga gggtgagagt taaaggagga ctgcagggag 180
aattggggcc caaggagagc tgaggaacag gacagagggt gccaggtcct aagaaacagt 240
acttatctcc tcag 254

<210> 74

<211> 145

<212> DNA

<213> Human

<400> 74

gtgagtgttg ggtgtggatg ggcctgtgag ccctgcgag tgatggagta ccaccccttg 60
 cagggtgtca ccacagctgg ggatcttcat agcaaccagg gcaggagact cacttttcat 120
 aaccacctgt ctccaccct cgtag 145

<210> 75
 <211> 98
 <212> DNA
 <213> Human

<220>
 <221> intron
 <222> (97)..(98)
 <223> N = A or T or G or C

<400> 75
 gtgagggcag gagagtgggt gtagccttca gatgtctttt gggggagata ttaggcttat 60
 gaaagacata ctggtagata agaaaacttg tggggcnn 98

<210> 76
 <211> 83
 <212> DNA
 <213> Human

<400> 76
 atcttttaag ctcccttggg atggggaggt tccagtaagt ctccaaacaa gagagtagag 60
 tatctcctct ttactctccc cag 83

<210> 77
 <211> 247
 <212> DNA
 <213> Human

<400> 77
 gtaagaccct caacctctgt aaggtgagt atgaggaaaa tgagtcagca gctgaggaag 60
 agcgttactc tacagcagca ctgcccaata tgggatctct cctctgtagt ttactctga 120
 gctttaccag cactgagaca aaggaaagag aagtcagagt taggggctgg aggtgggggt 180
 agaaagatgg ggaaggagag gaggaccaag agatgcaaag tccacagctt tgaaccctg 240
 taccag 247

<210> 78
 <211> 273
 <212> DNA
 <213> Human

<400> 78

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gtgaggaaaa gccagagggtt atatgcattg taagatgttt aaaaaaagca gcagccaggg 60
gaaggagggg agtgggcaac ttggggatgc ttccaacagg cccctcctct tctgtctctc 120
tgtctcgtct actctgactc tatcttttcc tctgaatgtc ttgaggtctc agattgtatc 180
tgcaacctgt ttccagatcc ccttaggggc ctctgcctct ccttcacttt cccctggaac 240
tgacctccag ctcccttctt caccactcc cag 273
```

<210> 79

<211> 114

<212> DNA

<213> Human

<400> 79

```
gtaagaatag aggcgggtgg aggaatacac atgaggggcc caaaggctac atcttctggg 60
ggttcaccta tcttgatcca caagccatgc gaggtgcctc tccgccact gcag 114
```

<210> 80

<211> 473

<212> DNA

<213> Human

<400> 80

```
gtgaggagaa gccctgcagc ctgggcctct ggcgctctct gcctctact caccctact 60
tgccagccaa ctccaggtcc tgcagctctt ctcccatctt ctgacccgc tcttcatgaa 120
aggaccatca cccacatccc tgtgtctcca cctcacatgt tcttattctc cactggagag 180
ccatgtctta atggaacttt cctgtggcca aattccttca cctgcctctg agtaggtaca 240
caccactccc aagtatgtct ctgcccacgt cccgtgcctc ttacttgatt cttaaattagc 300
ccacagggct atggtcagga ttccggggagg agagacagag tcagtgtgtc tgttacctat 360
ttctcctgtt tcacctgtc catttctctt tgatgtgcca ttcatgcctt gagcctcact 420
ttcacctcag cccacggcac caggccccag gccctgtctc cttccctatt cag 473
```

<210> 81

<211> 348

<212> DNA

<213> Human

<400> 81

```
gtcaaaggga acaaaggag gtgggattga ggaaggggat aatgggaaag gaaccctga 60
aaatgtcat aacaggaaag catgccctct gctgcatgcc ctttatacta aaagtgggga 120
gcactaaggc cagagataag aagaatcaat accataaaca tttcttgaac ccttggttca 180
tgtgagtcac tgttgcaaaa gaggatgaac aaagcgtgca cctcaccatt caagaacttg 240
cagtgcagta gggagggcat gtatacagct ttattcacag gccaaactgtg gtcagtgcgt 300
tacgggcttc caatactaac ttcccttgt ccaccttata cccagcag 348
```

<210> 82
<211> 209
<212> DNA
<213> Human

<400> 82
gtgaggggag aaactgatga ggggagaaac taaggagggg aaaatggagg aggatgaagg 60
agcatgacag tgaggctggg cctctggaat ggaatagggc tgtgtgggca gaaaagaaat 120
agaacacgag acagggaaag gcagtgaag tgcagagggg catatggggt ccccatggct 180
ccgaatgcta acctctgccc tctttgcag 209

<210> 83
<211> 202
<212> DNA
<213> Human

<400> 83
gtgaggagac caatctagct cctcggggac cccagggctg ggcatttccc agaggtgggg 60
attggctcct ctatcagaac aagggtccc tcagcacaga gaccacatcc ctccctttt 120
ctccctcccc acaggattgg ccaagggtt caggacagga aggaggtgat tgatgataca 180
ctgtctttta ttctctttta ag 202

<210> 84
<211> 155
<212> DNA
<213> Human

<400> 84
gtgatgagat ccaaattgtgc aaccacctcc acatcagagc tccctttcat tcctagtcct 60
actgggcctg ggtctaggtc cacaggattt ctgaccotta tttccccttc tttcccccac 120
tccccttact cctcccacct tcttgcttgc cctag 155

<210> 85
<211> 215
<212> DNA
<213> Human

<400> 85
gtgcgtatat ggccccagtg tctttaccct ctctgcatct tctcctgcaa ctctttctccc 60
ccctccagca ctttgccctt cagaaaccca ccatttcttt ctgaaatccc taaatcttca 120
agatcccagg ttttctgtgc cacagcctct cccctctgcc cagggatttg gttgtccatt 180
ctgccataaa tcttgcgatt ttctctcttc ttcag 215

<210> 86

<211> 29
<212> DNA
<213> Human

<400> 86
gctgctcagg tatacagtac cacgctccc

29

<210> 87
<211> 29
<212> DNA
<213> Human

<400> 87
agatccgggg tgaggagccc gtggtagga

29

<210> 88
<211> 29
<212> DNA
<213> Human

<400> 88
gaatggcagg tgagaagggg ccccatgtc

29

<210> 89
<211> 29
<212> DNA
<213> Human

<400> 89
ctcaagcagg tgagggggccg ccaagctgg

29

<210> 90
<211> 29
<212> DNA
<213> Human

<400> 90
accaactcgg tgcggaggaa aatgaagag

29

<210> 91
<211> 29
<212> DNA
<213> Human

<400> 91
ttcccatccc aaccctccag gctgtggtt

29

<210> 92
<211> 29
<212> DNA
<213> Human

<400> 92
ctctctctct ccttctccag accaggaga

29

<210> 93
<211> 29
<212> DNA
<213> Human

<400> 93
tgtctctcta cccaccacag gcctcctct

29

<210> 94
<211> 29
<212> DNA
<213> Human

<400> 94
tctcccctgc cctggcccag gtaggcttg

29

<210> 95
<211> 29
<212> DNA
<213> Human

<400> 95
tcacctctgc cctttgacag gtggatggc

29

<210> 96
<211> 79
<212> DNA
<213> Human

<400> 96
gtatacagta ccacgtccc caagcaaagt caagatgaga gaagacgtga cttgtaacct 60

tcccatccca accctccag

79

<210> 97

<211> 135

<212> DNA

<213> Human

<400> 97

gtgaggagcc cgtggttagga gggggcaggc tgctctaaca gaccctgctc tcatgctggc 60
ccctctgcat ggtcacactg catctgcatg cctgcttcca gatctttcca ggcacctctc 120
tctctccttc tccag 135

<210> 98

<211> 79

<212> DNA

<213> Human

<400> 98

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20

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<210> 104
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<400> 104
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28